



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-05-19-25 Date: 06-01-23

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyananyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 04-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	36	36	3.6	96.4	90-100	90-100	90-100	95-100
3	2.36 mm	54	90	9.0	91.0	60-95	75-100	85-100	95-100
4	1.18 mm	241	331	33.1	66.9	30-70	55-90	75-100	90-100
5	600 micron	219	550	55.0	45.0	15-34	35-59	60-79	80-100
6	300 micron	198	748	74.8	25.2	5-20	8-30	12-40	15-50
7	150 micron	185	933	93.3	6.7	0-10	0-10	0-10	0-15
8	Pan	67	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು (ಪ್ರಯೋಗ)
ಯಲಹಂಕ ಸುಪರ್ನಗರ ಸುಪರ್ವೈಸರ್.





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID

:

CP-2023-05-19-25

Date: 06-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Authorized Signatory
Technical Manager

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ಯುಲಪಂಚ ಕುಪನಗರ ಕುಪವಿಭಾಗ,
ಕೆ.ಜಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



TEST RESULTS OF STEEL

Lab ID : CP-2023-05-19-25 Date: 06-01-23

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyanarayapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-23

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 05-01-23

SL.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.381	513	651	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	525	665	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.879	541	679	20.0%	Satisfactory	Satisfactory

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Technical Manager

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ಯಲಹಂಕ ಸಾಟಲೈಟ್ ಟೌನ್ ಉಪವಿಭಾಗ,
ಇ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-05-19-25 Date: 16-01-23

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyanarayapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-23

Sample Type /Size : Precast Cover Slab - 100mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 11/01/2023

Grade of Slab : M25

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.52	100.48	1.216	4719	126.3	26.8	24.9	31.1
2	Cover Slab-2	77.50	100.52	1.122	4716	125.1	26.5	24.7	30.8
3	Cover Slab-3	77.45	100.51	1.235	4710	127.2	27.0	25.1	31.4

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Authorized Signatory
Technical Manager

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ಯಶಸ್ವಿ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-100

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-05-19-25 Date: 16-01-23

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyananyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-23

Sample Type /Size : Precast Cover Slab - 230mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 11/01/2023

Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.51	230.48	1.235	4718	127.4	27.0	25.1	31.4
2	Cover Slab-2	77.45	23.56	1.155	4710	125.9	26.7	24.9	31.1
3	Cover Slab-3	77.26	230.15	1.145	4687	127.5	27.2	25.3	31.6

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ಬಿ.ಎಂ.ಸಿ. ರೋಡ್-106

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-19-25 Date: 14/01/2023
 Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division
 Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyanarayapura, Bangalore-560097
 Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 09-01-23
 Customer ID : Drain Bottom Raft Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
 Date of test : 14/01/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	150.51 X 149.94 X 150.94	22568	8.640	427.5	18.9	18.7
2	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	151.78 X 149.92 X 149.32	22754	9.064	427.8	18.8	
3	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	151.01 X 150.07 X 151.45	22662	8.311	414.7	18.3	

* The results obtained are satisfactory as per standard requirements

Note:

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ಕೆ.ಆರ್.ಎಸ್. ಬೆಂಗಳೂರು-108

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-19-25 Date: 17/01/2023

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

Agency : Sri.Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyanarayapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/42/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-01-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/01/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	150.01 X 149.03 X 149.98	22356	8.537	423.1	18.9	18.9
2	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	151.42 X 149.40 X 149.98	22622	9.016	428.4	18.9	
3	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	150.34 X 149.04 X 149.03	22406	8.406	422.4	18.9	

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ಇ.ಇ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-05-19-25 Date: 07-01-23
 Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
 Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore
 Project Name : Improvements and regarding of road side drains in Bettahalli layout in Attur ward no 04 Yelahanka Satellite Town sub Division
 Agency : Sri Sambasiva, No 04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyananyapura, Bangalore-560097
 Customer's Reference : BBMP/EE/YNK D/EPMT-12/W O/42/2022-23
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 04-01-23
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
 IS 4031 (Part 4,5) 1988
 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 05-01-23

Environmental Conditions during test : Temperature 26°C
 Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.1	—
2	Finess by Air permeability method (m ² /kg.Min)	284.5	225m ² /kg. Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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 Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2023-05-19-25

Date: 06-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.19	—
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ಶಿ.ಸಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-100



QC ABSTRACT

NAME OF WORK: Improvements and regarding of road side drains in Bettahalli layout in Attur ward no:04 Yelahanka Satellite Town sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RMC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	43.44	8	8